

US-10-369-493-9316
; Sequence 9316, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 9316
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Xylella fastidiosa
US-10-369-493-9316

Query Match 6.9%; Score 91.5; DB 6; Length 832;
Best Local Similarity 24.1%; Pred. No. 5.9;
Matches 64; Conservative 45; Mismatches 80; Indels 77; Gaps 18;
QY 25 HWRIE-----TSRHK-----EDEFGMILRSFDHSGI-MFEQIDGIII 62
DB 190 HWRMHQPRRVVVTGFVASDRTGRAITLGRNGSDYSGAIFAALFEADELHIWTDVDGVMS 249
QY 63 SS--VVPPI-----FALERMC-TKYFH---IEPQIVGPMKTGLNICYDN---PREVG-- 107
DB 250 ADPRVVPDAVQLDALSYDEACELAYFGAKVVHPQTMSPVMKRGVPIIIRNTFQPRHPGTR 309
QY 108 --ADRVN-----AVAAHLYGNPLIVDFGTATTYCYIDENKQYMGGAIPG-- 153
DB 310 ITADSVVSGSVKGLTSPGLAVLNLEGTGLIGVP-GTAERVFAALRNARLSVVMISQSS 368
QY 154 -----ITISTEA-----LYSRAAKL-----PRIETRPDNIIGKNTVSAMOSGILFG 195
DB 369 EHSICCLVHQTEAERARDALLYFAHELAIGHVQVOLT--NNI---SVLAAVGDG-MAG 422
QY 196 YVGQVEGIVKRMKQAKODLKVIATG 221
DB 423 HLGVAARLFESLR-RAHVNIILAIQAQ 447

RESULT 15

US-10-369-493-9427
; Sequence 9427, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 9427
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Xylella fastidiosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; OTHER INFORMATION: unsure at all xaa locations
US-10-369-493-9427

Query Match 6.8%; Score 90.5; DB 6; Length 850;
Best Local Similarity 23.7%; Pred. No. 7.7;
Matches 63; Conservative 45; Mismatches 81; Indels 77; Gaps 17;
QY 25 HWRIE-----TSRHK-----EDEFGMILRSFDHSGI-MFEQIDGIII 62
DB 208 HWRMHQPRRVVVTGFVASDRTGRAITLGRNGSDYSGAIFAALFEADELHIWTDVDGVMS 267
QY 63 SS--VVPPI-----FALERMC-TKYFH---IEPQIVGPMKTGLNICYDNKEVG----- 107
DB 268 ADPRVVPDAVQLDALSYDEACELAYFGAKVVHPQTMSPVMKRGVPIIIRNTFQPRHPGTR 327
QY 108 --ADRVN-----AVAAHLYGNPLIVDFGTATTYCYIDENKQYMGGAIPG-- 153
DB 328 ITADSVVSGSVKGLTSPGLAVLNLEGTGLIGVP-GTAERVFAALRNARLSVVMISQSS 386
QY 154 -----ITISTEA-----LYSRAAKL-----PRIETRPDNIIGKNTVSAMOSGILFG 195
DB 387 EHSICCLVHQTEAERARDALLYFAHELAIGHVQVOLT--NNI---SVLAAVGDG-MAG 440
QY 196 YVGQVEGIVKRMKQAKODLKVIATG 221
DB 441 HLGVAARLFESLR-RAHVNIILAIQAQ 465

Search completed: June 18, 2003, 10:08:47
Job time : 110 secs

* RESULT 11

US-10-369-493-15113
; Sequence 15113, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 15113
; LENGTH: 467
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens
US-10-369-493-15113

Query Match 7.1%; Score 95; DB 6; Length 467;
Best Local Similarity 20.5%; Pred. No. 1.1; Indels 94; Gaps 13;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
QY 14 LGVYHDKLEYHW-----RIETSRHKTDEFGMILRSLFDHSGL-----52
Db 179 VGIHTGVPHHYGAEAGETEFESKRRAAELEALILREGPDTIGATIAEPVLGTGTGP 238
QY 53 -----MFEQIDGIISSVV-----PPIMFALERMCTKYFH 82
Db 239 PPEGYPAIQEVLLKYDVLIIADEVITGFGRTSGMFGSQHYGIEPDLITVAKGLTSAYFP 298
QY 83 IEQIVGPGMKTGLNIDYKPNKEVADRIYNAVAIHLV-GNPLIVDFGTATTYCID- 140
Db 299 LSGAIVGEKVTYVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGGAIAPIGTITSTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVQ 199
Db 345 VEKEDLPGNAQAVG-SYFQQLPAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
Db 387 IEFVADREKKTTFAPHLTVGARVSKAARNGGLIARAMPHGDLGFPAPPLVTTK 439

RESULT 12

US-10-369-493-14218
; Sequence 14218, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 14218
; LENGTH: 467
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens
US-10-369-493-14218

Query Match

7.0%; Score 94; DB 6; Length 467;

Best Local Similarity 20.5%; Pred. No. 1.4;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
QY 14 LGVYHDKLEYHW-----RIETSRHKTDEFGMILRSLFDHSGL-----52
Db 179 VGIHTGVPHHYGAEAGETEFESKRRAAELEALILREGPDTIGATIAEPVLGTGTGP 238
QY 53 -----MFEQIDGIISSVV-----PPIMFALERMCTKYFH 82
Db 239 PPEGYPAIQEVLLKYDVLIIADEVITGFGRTSGMFGSQHYGIEPDLITVAKGLTSAYFP 298
QY 83 IEQIVGPGMKTGLNIDYKPNKEVADRIYNAVAIHLV-GNPLIVDFGTATTYCID- 140
Db 299 LSGAIVGEKVTYVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGGAIAPIGTITSTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVQ 199
Db 345 VEKEDLPGNAQAVG-SYFQQLPAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
Db 387 IEFVADREKKTTFAPHLTVGARVSKAARNGGLIARAMPHGDLGFPAPPLVTTK 439

RESULT 13

US-10-369-493-17640
; Sequence 17640, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 17640
; LENGTH: 828
; TYPE: PRT
; ORGANISM: Xylella fastidiosa
US-10-369-493-17640

Query Match 6.9%; Score 91.5; DB 6; Length 828;
Best Local Similarity 23.7%; Pred. No. 5.9;
Matches 63; Conservative 45; Mismatches 81; Indels 77; Gaps 17;
QY 25 HWRIE-----TSRHT-----EDEFGMILRSLFDHSGL-MFEQIDGII 62
Db 184 HWRQHQRVVVTGTFVASDRTGRAITLGRNGSDYSGAIFALFEADLHIWTDVGVMS 243
QY 63 SS--VVPPIM----FALERMCTKYFH---IEPQIVGPGMKTGLNIDYKPNKEV-----107
Db 244 ADPRVVPDAVQDALSDYDEACELAYFGAKVWHPQTMSPVMKRGVPIIIRNTFQPGHPT 303
QY 108 --ADRYN-----AVAAIHLVGNPLIVDFGTATTYCIDENKQYMGGAIAPIG--153
Db 304 ITADSVVSGSVKGLTSLPGLAVNLIEGTGLIGVP-GTAERVAALRNARLSVVMISQSGS 362
QY 154 -----ITISTEA-----LYSRAAKL-----PRIETRPDNIIGKNTVSAMQSGILFG 195
Db 363 EHSICCVVHQTEARERDALLIYAFAPHAELAHIGHVQVQLT--NNI----SVLAAGVDC-MAG 416
QY 196 YVGQVEGIVKRMKQAKQDLKVIATG 221
Db 417 HLGVAARLFESLR-RAHVNIILAIAGQ 441

RESULT 14

PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: Patent in version 3.1
SEQ ID NO 57505
LENGTH: 242
TYPE: PRT
ORGANISM: Enterococcus faecium
US-10-282-122A-57505

Query Match 7.2%; Score 95.5; DB 6; Length 242;
Best Local Similarity 22.7%; Pred. No. 0.35; Mismatches 35; Indels 89; Gaps 13;
Matches 64; Conservative 35

QY 3 LVIDVGNNTVLG-VYHDKLEYHWRITSRHKTEDEFGMILRSFLDHSGLMFEQIDGII 61
DB 4 LAIDIGGTLKYGYSQDGLLQHTIPVPTNYND-----LLQKITAIY 47
QY 62 ISSVVPPIFALERMCTKYPHIEPQVPGMKT-GLNKYDNPKEVGADRVNVAAILH 120
DB 48 LSS-----ENILGVGSSPGI---YD-----MKSNRITGSSALKYL 80
QY 121 YGNPLIV-VDFGTATTC-----YIDENKQY-----MGAIAPGITISTE 159
DB 81 IGRPLKADISWALNTVAIENDGNCALLGEWQNCQYRSRAIYVIGSAGGSIQISDE 140
QY 160 AL-----YSRAAKLPRIETRPDNIIGKNTVSAM-----QSGILFGYGVQVEGI 203
DB 141 ILRGANNAGELGYSLVDNLPTD--KYSSLGKIGFNALLKKNQOQYKF-----ENGK 193
QY 204 VKRMKQAKDLKVIATGGLAPLIANESDCIDIVDPFLTLKG 245
DB 194 DLFLKSQDRKLEKLIIDELKYLASSLITLOYYVIDPEVILIG 235

RESULT 9
US-10-369-493-11410
Sequence 11410, Application US/10369493
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
PRIOR FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 11410
LENGTH: 467
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens
US-10-369-493-11410

Query Match 7.1%; Score 95; DB 6; Length 467;
Best Local Similarity 20.5%; Pred. No. 1.1;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
Matches 60

QY 14 LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSFLDHSGL----- 52
DB 179 VGILHTGVPHHYWGAEAGETELEFSKRAAELEALILREGPDITIGAFIAEPVLGTGGITP 238
QY 53 -----MFEQIDGIIISVV-----PPIMFALERMCTKYFH 82
DB 239 PPEGYWPALQEVLLKYYDVLIADEVITGFGRTGSMFGSHYGIETPLIIVAKGLTSAYFP 298
QY 83 IEPQIVPGMKTGLNKNYDNPKEVGADRVNVAIAHLY-GNPLIVVDFGTATTCYID- 140
DB 299 LSGAIVGEKVYTVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGALAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVQ 199
DB 345 VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
DB 387 IEFVADREKTRFAPHLTVGARVSKAARNGGLIARAMPHGDLILGFAPPLVTTK 439

Query Match 7.1%; Score 95; DB 6; Length 467;
Best Local Similarity 20.5%; Pred. No. 1.1;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
Matches 60

QY 14 LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSFLDHSGL----- 52
DB 179 VGILHTGVPHHYWGAEAGETELEFSKRAAELEALILREGPDITIGAFIAEPVLGTGGITP 238
QY 53 -----MFEQIDGIIISVV-----PPIMFALERMCTKYFH 82
DB 239 PPEGYWPALQEVLLKYYDVLIADEVITGFGRTGSMFGSHYGIETPLIIVAKGLTSAYFP 298
QY 83 IEPQIVPGMKTGLNKNYDNPKEVGADRVNVAIAHLY-GNPLIVVDFGTATTCYID- 140
DB 299 LSGAIVGEKVYTVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGALAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVQ 199
DB 345 VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
DB 387 IEFVADREKTRFAPHLTVGARVSKAARNGGLIARAMPHGDLILGFAPPLVTTK 439

RESULT 10
US-10-369-493-14645
Sequence 14645, Application US/10369493
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
PRIOR FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 14645
LENGTH: 467
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens
US-10-369-493-14645

Query Match 7.1%; Score 95; DB 6; Length 467;
Best Local Similarity 20.5%; Pred. No. 1.1;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
Matches 60

QY 14 LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSFLDHSGL----- 52
DB 179 VGILHTGVPHHYWGAEAGETELEFSKRAAELEALILREGPDITIGAFIAEPVLGTGGITP 238
QY 53 -----MFEQIDGIIISVV-----PPIMFALERMCTKYFH 82
DB 239 PPEGYWPALQEVLLKYYDVLIADEVITGFGRTGSMFGSHYGIETPLIIVAKGLTSAYFP 298
QY 83 IEPQIVPGMKTGLNKNYDNPKEVGADRVNVAIAHLY-GNPLIVVDFGTATTCYID- 140
DB 299 LSGAIVGEKVYTVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGALAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVQ 199
DB 345 VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
DB 387 IEFVADREKTRFAPHLTVGARVSKAARNGGLIARAMPHGDLILGFAPPLVTTK 439


```

RESULT 3
US-10-320-800-48
; Sequence 48, Application US/10320800
; GENERAL INFORMATION:
; APPLICANT: ROBINSON, ANDREW
; APPLICANT: GORRINGE, ANDREW
; APPLICANT: HUDSON, MICHAEL
; APPLICANT: REDDIN, KAREN
; TITLE OF INVENTION: MULTICOMPONENT MENINGOCOCCAL VACCINE
; FILE REFERENCE: 1581.0790001
; CURRENT APPLICATION NUMBER: US/10/320,800
; CURRENT FILING DATE: 2002-12-17
; PRIOR APPLICATION NUMBER: PCT/GB99/03626
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-320-800-48

Query Match          11.2%; Score 150; DB 6; Length 592;
Best Local Similarity 32.4%; Pred. NO. 4.9e-06;

```

Matches	46;	Conservative	23;	Mismatches	57;	Indels	16;	Gaps	3;
Qy	95	GLNIKYDNPKEVGADRIYNAVAATHLYGNPLIVVDFGTATTCYIDENKQYMGGAIPCI	154						
Db	421	GIRNHYPHEGSDRWFNGLSGRRFSNACVYVSCGTAVTVDALTDDGHLYGGTIMPGF	480						
Qy	155	TISTEALYSRAAKLPRIEITRPDNIIGK-----NTVSAMQSGILFGVVGQVEGIVKRMK	208						
Db	481	HLMKESLAVRTANLR-----HAGKRYFPFPTTGNVASGMDAVCGSYMMHGRLLK	532						
Qy	209	WQ--AKQDLKVIATGGGLAPLIA	228						
Db	533	EKTGAGKPDVVIITGGGAAKVA	554						
RESULT 4									
US-10-366-683-21337									
; Sequence 21337, Application US/10366683									
; GENERAL INFORMATION:									
; APPLICANT: Rubenfield, Marc J.									
; APPLICANT: Nolling, Jork									
; APPLICANT: Delouchery, Craig									
; APPLICANT: Bush, David									
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS									
; FILE REFERENCE: PATH03-04									
; CURRENT APPLICATION NUMBER: US/10/366,683									
; CURRENT FILING DATE: 2003-02-13									
; PRIOR APPLICATION NUMBER: 09/252,991									
; PRIOR FILING DATE: 1999-02-18									
; NUMBER OF SEQ ID NOS: 33142									
; SEQ ID NO 21337									
; LENGTH: 253									
; TYPE: PRT									
; ORGANISM: Pseudomonas aeruginosa									
US-10-366-683-21337									
Query Match 10.0%; Score 133; DB 6; Length 253;									
Best Local Similarity 25.7%; Pred. No. 6.6e-05;									
Matches	46;	Conservative	35;	Mismatches	80;	Indels	18;	Gaps	5;
Qy	81	FTEPQIVGPGMK-TGNIKYDNPKEVGADRIYNAVAATHLYGNPLIVVDFGTATTCYI	139						
Db	77	FPSYALVSSGKQLAGVRNGYLDYQRLGLDRWLALVAHHLAKACLVIDLGTAVTSDLV	136						
Qy	140	DENKQYMGGAIPCIITISTEALYSRAAKLPRIEITRPDNIIGKNTVSAMQSG-----IL	193						
Db	137	ADGVHLGGYICPGMTLMRSQLRTHTRRI-----RYDDAEARRALASLOPQATAEAVE	190						
Qy	194	FGVVGQVEGIVKRMKWAQK-----DLKVIATGGGLAPLIANESDCIDIVDFLTUKGLEL	248						
Db	191	RGCLLMRGFVRQYAMACELGPDCEIFLTGDAELVRDELAGARIN-PDLVFGVGLAL	248						
RESULT 5									
US-10-419-128-21337									
; Sequence 21337, Application US/10419128									
; GENERAL INFORMATION:									
; APPLICANT: Marc J. Rubenfield et al.									
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS									
; FILE REFERENCE: 107196.136									
; CURRENT APPLICATION NUMBER: US/10/419,128									
; CURRENT FILING DATE: 2003-04-21									
; PRIOR APPLICATION NUMBER: US/09/252,991									
; PRIOR FILING DATE: 1999-02-18									
; PRIOR APPLICATION NUMBER: US 60/074,788									
; PRIOR FILING DATE: 1998-02-18									
; PRIOR APPLICATION NUMBER: US 60/094,190									
; PRIOR FILING DATE: 1998-07-27									
; NUMBER OF SEQ ID NOS: 33142									
; SEQ ID NO 21337									
; LENGTH: 253									

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OM protein - protein search, using sw model

Run on: June 18, 2003, 09:59:55 ; Search time 108 Seconds
(without alignments)
610.001 Million cell updates/sec

Title: US-09-813-453A-2

Perfect score: 1335

Sequence: 1 LLLVIDGNTNTVLGVYHDG.....PFLTKGLELIYERNVGSV 258

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

1156168 seqs, 255349102 residues

Total number of hits satisfying chosen parameters: 1156168

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Pending_Patents_AA_New.*

- 1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pcp.*
- 2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pcp.*
- 3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pcp.*
- 4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pcp.*
- 5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pcp.*
- 6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pcp.*
- 7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	655	49.1	265	6	US-10-156-761-12224
2	181.5	13.6	249	6	US-10-431-652-4748
3	150	11.2	592	6	US-10-320-800-48
4	133	10.0	253	6	US-10-366-683-21337
5	133	10.0	253	6	US-10-419-128-21337
6	116.5	8.7	223	6	US-10-335-977-8237
7	101.5	7.6	208	6	US-10-369-493-238
8	95.5	7.2	242	6	US-10-282-122A-57505
9	95	7.1	467	6	US-10-369-493-14410
10	95	7.1	467	6	US-10-369-493-14645
11	94	7.0	467	6	US-10-369-493-15113
12	94	7.0	467	6	US-10-369-493-14218
13	91.5	6.9	828	6	US-10-369-493-17640
14	91.5	6.9	832	6	US-10-369-493-9316
15	90.5	6.8	850	6	US-10-369-493-9427
16	89.5	6.7	208	6	US-10-369-493-178
17	88.5	6.6	1089	6	US-10-369-493-8991
18	88	6.6	256	6	US-10-324-967-10
19	88	6.6	311	6	US-10-366-683-23527
20	88	6.6	311	6	US-10-419-128-23527
21	87	6.5	450	6	US-10-282-122A-60269
22	87	6.5	454	6	US-10-446-203-11055
23	86.5	6.5	243	1	PCT-US01-43607-16
24	86.5	6.5	243	6	US-10-432-443-16
25	86.5	6.5	523	7	US-60-427-166-56
26	86	6.4	1011	6	US-10-366-683-22505

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27 86 6.4 1011 6 US-10-419-128-22505 Sequence 22505, A
28 85 6.4 336 6 US-10-369-493-787 Sequence 787, App
29 85 6.4 349 6 US-10-417-886-6817 Sequence 6817, Ap
30 84 6.3 450 6 US-10-282-122A-56157 Sequence 56157, A
31 84 6.3 534 6 US-10-369-493-10987 Sequence 10987, A
32 83.5 6.3 221 6 US-10-282-122A-72948 Sequence 72948, A
33 83.5 6.3 256 6 US-10-369-493-13786 Sequence 13786, A
34 83.5 6.3 315 6 US-10-424-599-225859 Sequence 225859, A
35 83.5 6.3 450 6 US-10-282-122A-75495 Sequence 75495, A
36 83.5 6.3 482 6 US-10-369-493-10602 Sequence 10602, A
37 83 6.2 442 6 US-10-437-963-171803 Sequence 171803, A
38 83 6.2 480 6 US-10-282-122A-62885 Sequence 62885, A
39 83 6.2 480 6 US-10-417-886-8004 Sequence 8004, Ap
40 82.5 6.2 323 6 US-10-282-122A-52511 Sequence 52511, A
41 82.5 6.2 420 6 US-10-425-114-36713 Sequence 36713, A
42 82.5 6.2 450 6 US-10-282-122A-75276 Sequence 75276, A
43 82 6.1 446 6 US-10-282-122A-52516 Sequence 52516, A
44 82 6.1 499 6 US-10-282-122A-48505 Sequence 48505, A
45 81.5 6.1 312 6 US-10-369-493-23032 Sequence 23032, A

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ALIGNMENTS

RESULT 1

US-10-156-761-12224

; Sequence 12224, Application US/10156761

; GENERAL INFORMATION:

; APPLICANT: IKEDA, HARUO

; APPLICANT: OMURA, SATOSHI

; APPLICANT: ISHIKAWA, JUN

; APPLICANT: HORIKAWA, HIROSHI

; APPLICANT: SHIBA, TADAYOSHI

; APPLICANT: SAKAKI, YOSHIYUKI

; APPLICANT: HATTORI, MASAHIRA

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

; FILE REFERENCE: 249-262

; CURRENT APPLICATION NUMBER: US/10/156,761

; CURRENT FILING DATE: 2002-05-29

; PRIOR APPLICATION NUMBER: JP 2001-204089

; PRIOR FILING DATE: 2001-05-30

; PRIOR APPLICATION NUMBER: JP 2001-272697

; PRIOR FILING DATE: 2001-08-02

; NUMBER OF SEQ ID NOS: 15109

; SEQ ID NO 12224

; LENGTH: 265

; TYPE: PRT

; ORGANISM: Streptomyces avermitilis

US-10-156-761-12224

Query Match

Best Local Similarity 49.1%; Score 635; DB 6; Length 265;

Matches 135; Conservative 42; Mismatches 76; Indels 8; Gaps 3;

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QY 1 LLLVIDGNTVLGVYHDGKLEYHWRIETSHKTEDEFGMLRSLFHSGLMFEQ----56
DB 1 MLLTIDVGNTHVLGLFDGEDIVEHWRIETSDARRTADLAVLLOGLMGMHPLLELGDG 60
QY 57 IDGIITISVPPPIFALERMCTKYFHIPQI-VGPGMKTGLNKKYDNPKEVGADRIYNAV 115
DB 61 IDGTAICTVPSVLHELREVTYRGDVPVAVLVEFGIKTGVPILMDNPKEVGADRIINAV 120
QY 116 AAHLIYGNPLIVDFGTATTTCYIDENKQYMGATAPGITITSTEALYSRAAKLPRIETFR 175
DB 121 AAVELYGGPAIVDFGTATTTFDASARGEYAGGVAPGIEISVEALGVVGAQLRKTELAR 180
QY 176 PDNIIGNTVSAMSGILFGYGVQVEGIVKRWKWA---KQDLKIATGGLAPLANESD 232
DB 181 PRAVIGNTVSAMGAGIYVGFAGQVGVYVTRMARELADDDVDTVIATGGLAPMVLGEAS 240
QY 233 CIDIVDFPLTKGLELIYERN 253
DB 241 VIDEHEPMTLIGLRVYERN 261

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; REGISTRATION NUMBER: 29,772
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 258-5200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3898 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-876-991-2

Query Match      5.8%; Score 78; DB 2; Length 3898;
Best Local Similarity 20.7%; Pred. No. 51;
Matches 45; Conservative 35; Mismatches 73; Indels 64; Gaps 11;

QY 20 GKLEYHW-RIETSRHKTDEFGMLR-----SLFDHSGLMFEQID---GIILSSVVP 67
Db 2113 GSKDYHYDLQAQRYGIEDGINITKSPREMYDMSLYEEDSLMITQLEILNLLISELP 2172
QY 68 PIMFALERMCTKYFHIEP-----QIVPGMKTG-LNIKYDNPKVGGADRVNA 114
Db 2173 ---MAVNNIMARTDHPPIQLAINSYETQVPVLPFKIRNGEVTDYDNYTFLNARKLGDD 2229
QY 115 VAAIHLYGNPLIVVDFGTATYCYIDENKQYMGGAIA-----PGTITISTEALYSRAAKLP 169
Db 2230 V-----PPYVYATEDEDLAVELLGLDWPDPGNGQTVEA--CRALK-- 2267
QY 170 RIETRPDNIIGNKNTVSAMOSGILFGYVGQVEGIVKR 206
Db 2268 -----QVVGLSTAENALLVALFGYVG-YQALSKR 2295

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Search completed: June 18, 2003, 10:01:34
Job time : 17 secs

APPLICANT: MENGEL-WHERSAT, STEPHANIE A
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED
TITLE OF INVENTION: THEREON
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/031,655
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/219,262
FILING DATE: 29-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2747-047-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1012 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Infectious bursal disease virus
STRAIN: DS326
US-09-031-655-2
Query Match 5.8%; Score 78; DB 3; Length 1012;
Best Local Similarity 23.8%; Pred. No. 6.1;
Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;
QY 97 NIKYDNPKEVGADRIVNAVAIHLGNPLIVVDF-GTATTTCYIDENKQYMGGAIAICIT 155
DB 233 NIDAITSLVGGELVFTSVQSLVIGATYILIGDGTAVITRAVANN-----GLT 283
QY 156 ISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYGVQVEGIVKMKWQAKODL 215
DB 284 AGTDNLMPFNIVPTNEITQP-----ITSIKLIVTSKSGLEG--DOMSWSASGL 333
QY 216 KVATGGIAPLANESCIDIVDFLTKGLELI-YERNRVGSV 258
DB 334 AVTIHGNYP-----GALRPVTLVAYERVATGSV 362
RESULT 14
US-08-937-102-2
Sequence 2, Application US/08937102A
Patent No. 5965134
GENERAL INFORMATION:
APPLICANT: Thiel, Heinz-Jürgen
APPLICANT: Elpers, Knut
APPLICANT: Pauly, Thomas
TITLE OF INVENTION: T Cell Stimulating Protein of Pestivirus
FILE REFERENCE: 1/94108
CURRENT APPLICATION NUMBER: US/08/937,102A
CURRENT FILING DATE: 1997-09-24

EARLIER APPLICATION NUMBER: 08/693,247
EARLIER FILING DATE: 1996-08-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1213
TYPE: PRT
ORGANISM: Classical Swine Fever Virus
US-08-937-102-2
Query Match 5.8%; Score 78; DB 2; Length 1213;
Best Local Similarity 20.7%; Pred. No. 8.1;
Matches 45; Conservative 35; Mismatches 73; Indels 64; Gaps 11;
QY 20 GKLEYHW-RIETSRHKTEDEFGMILR-----SLFDHSGLMFEQID---GIISVSWP 67
DB 983 GSKDYHYDLLQAQRYGIEDGINITKSFREMYNDWSLYEEDSLMITQLEILNLLISELP 1042
QY 68 PIMFALERMCTKYFHIEP-----QIVGPGMKTG-LNIKYDNPKEVGADRIVNA 114
DB 1043 ---MAVKNIMARTDHPPIQLAYNSYETQPVLPFKIRNGEYTDYDNTFFLNARKLGD 1099
QY 115 VAAIHLGNPLIVVDFGTATTTCYIDENKQYMGGAIA-----PGITISTEALYSRAAKLP 169
DB 1100 V-----PPVYATEDDEDLAVELLGLDWPDPGNOGTVEA--GRALK-- 1137
QY 170 RIETRPDNIIGKNTVSAMQSGILFGYGVQVEGIVKR 206
DB 1138 -----QVVGSLTAENALLVALFGYVG-YQALSRR 1165
RESULT 15
US-08-876-991-2
Sequence 2, Application US/08876991
Patent No. 5925360
GENERAL INFORMATION:
APPLICANT: Gregor Meyers, Tillmann R menapf,
APPLICANT: Heinz-Jürgen Thiel
TITLE OF INVENTION: Hog cholera virus vaccine and diagnostic
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Organon Teknika Corporation
ADDRESSEE: Biotechnology Research Institute
STREET: 1330-A Piccard Drive
CITY: Rockville
STATE: Maryland
COUNTRY: U.S.A.
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/876,991
FILING DATE: 16-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/747,577
FILING DATE:
APPLICATION NUMBER: US/08/650,584
FILING DATE:
APPLICATION NUMBER: US/08/469,702
FILING DATE:
APPLICATION NUMBER: US/08/123,596
FILING DATE:
APPLICATION NUMBER: 07/797,554
FILING DATE: 22-NOV-1991
APPLICATION NUMBER: US 07/494,991
FILING DATE: 16-MAR-1990
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: William M. Blackstone

Db 655 GSHKTFCHWEDSHQAQLRWSVLTSK-----TGPIQDHTGDGNFIYSQADENQKG 704
 QY 61 IISVVPPINFALERMC-TYFHEIQIVGPMKTLGNIKYDNPKEVGADRIYNVA--- 116
 Db 705 VARLVSPVYQSASCHMTFYHMSGSHVG---TLRVKLRYQKPEY--DOLVMMVYGHQ 759
 QY 117 -----AIHLYGNPLIVVDFTATTYCIDENQYMGGAIAPIGTITSTEALYS 163
 Db 760 GDHWKSGRVLHKSLLYQ-----VIFEG-----EIGKNGLGGIAVDISINNHISQE 807
 QY 164 RAAKLPRITRPDNIIGKNT-VSAMQSGILFGYGVQVEG 202
 Db 808 DCAK-----PTDLKKTEIKIDETGTGTPGVEGEG 839

RESULT 11

US-07-944-943-2
 ; Sequence 2, Application US/07944943
 ; Patent No. 5518724
 ; GENERAL INFORMATION:
 ; APPLICANT: SNYDER, DAVID B.
 ; APPLICANT: VAKHARIA, VIKRAM
 ; TITLE OF INVENTION: NOVEL INFECTIOUS BURSAL DISEASE VIRUS
 ; NUMBER OF SEQUENCES: 2
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ; STREET: 1755 S. Jefferson Davis Highway, Suite 400
 ; CITY: Arlington
 ; STATE: Virginia
 ; COUNTRY: U.S.A.
 ; ZIP: 22202

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/944,943
 FILING DATE: 19920915
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kelber, Steven B.
 REGISTRATION NUMBER: 30,073
 REFERENCE/DOCKET NUMBER: 2284-029-0 CIP
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1012 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-07-944-943-2

Query Match 5.8%; Score 78; DB 1; Length 1012;
 Best Local Similarity 23.8%; Pred. No. 6.1;
 Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;
 QY 97 NIKYDNPKEVGADRIYNVAIAHLYGNPLIVDF-GTATTYCIDENQYMGGAIAPIGT 155
 Db 233 NIDAITSLVSGGELVFRTSVQSLVGLGATYILIGFDGTAVITRAVAANN-----GLT 283
 QY 156 ISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYGVQVEGIVKRMKQAKDL 215
 Db 284 AGTDNLMPFNLVPIPTNEITQP-----ITSIKLKIVTSKSGLEG--DQMSWSASGSL 333
 QY 216 KVIATGGLAPLIANESDCIDIVDFLTKGLELI-YERNRVGSV 258
 Db 334 AVTIHGGNYP-----GALRPVTLVAYERVATGSV 362

RESULT 12

US-08-219-262B-2
 ; Sequence 2, Application US/08219262B
 ; Patent No. 5788970
 ; GENERAL INFORMATION:
 ; APPLICANT: VAKHARIA, VIKRAM
 ; APPLICANT: SNYDER, DAVID B.
 ; APPLICANT: MENDEL-WHERSAT, STEPHANIE A
 ; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS
 ; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED
 ; TITLE OF INVENTION: THEREON
 ; NUMBER OF SEQUENCES: 15
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
 ; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: USA
 ; ZIP: 22202

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/219,262B
 FILING DATE: 29-MAR-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: OBLON, NORMAN F
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 2747-047-27
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1012 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 ORIGINAL SOURCE:
 ORGANISM: Infectious bursal disease virus
 STRAIN: DS326
 US-08-219-262B-2

Query Match 5.8%; Score 78; DB 1; Length 1012;
 Best Local Similarity 23.8%; Pred. No. 6.1;
 Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;
 QY 97 NIKYDNPKEVGADRIYNVAIAHLYGNPLIVDF-GTATTYCIDENQYMGGAIAPIGT 155
 Db 233 NIDAITSLVSGGELVFRTSVQSLVGLGATYILIGFDGTAVITRAVAANN-----GLT 283
 QY 156 ISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYGVQVEGIVKRMKQAKDL 215
 Db 284 AGTDNLMPFNLVPIPTNEITQP-----ITSIKLKIVTSKSGLEG--DQMSWSASGSL 333
 QY 216 KVIATGGLAPLIANESDCIDIVDFLTKGLELI-YERNRVGSV 258
 Db 334 AVTIHGGNYP-----GALRPVTLVAYERVATGSV 362

RESULT 13

US-09-031-655-2
 ; Sequence 2, Application US/09031655
 ; Patent No. 6017759
 ; GENERAL INFORMATION:
 ; APPLICANT: VAKHARIA, VIKRAM
 ; APPLICANT: SNYDER, DAVID B


```

;
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane
; TITLE OF INVENTION: Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: PCT/US94/08326
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/096,181
; FILING DATE: 23-JULY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REFERENCE/DOCKET NUMBER: 1438.001PC01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US94-08326-12

Query Match 5.9%; Score 79; DB 5; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;

QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFQIDGIISVVPPIMFAL 73
Db 100 VKLGRAKTIADGITSADKEYGLVNNSDYIPTSGNTVGYTFKGDGLVGA---NYLLAQ 156
QY 74 ERMCTKYPHIEPQIVGPMKGTGLNPKYDNPKEVGADRIVNAVAATHLYGNPLIVYDFGTA 133
Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIATYGR----- 203
QY 134 TTYCY--IDENKOYMGGAIAAP-----GITSTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMOSGILFG 195
Db 264 YELMEDTNYGNFKYERTSVDOGEKTRQAVLFG 297

RESULT 5
PCT-US94-08326-14
; Sequence 14, Application PC/TUS9408326
; GENERAL INFORMATION:
; APPLICANT: North American Vaccine, Inc.
; APPLICANT: 12103 Indian Creek Court
; APPLICANT: Beltsville, MD 20705
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level
; TITLE OF INVENTION: Expression,
; TITLE OF INVENTION: Purification
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane
; TITLE OF INVENTION: Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b

```

```

;
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: PCT/US94/08326
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/096,181
; FILING DATE: 23-JULY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REFERENCE/DOCKET NUMBER: 1438.001PC01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US94-08326-14

Query Match 5.9%; Score 79; DB 5; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;

QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFQIDGIISVVPPIMFAL 73
Db 100 VKLGRAKTIADGITSADKEYGLVNNSDYIPTSGNTVGYTFKGDGLVGA---NYLLAQ 156
QY 74 ERMCTKYPHIEPQIVGPMKGTGLNPKYDNPKEVGADRIVNAVAATHLYGNPLIVYDFGTA 133
Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIATYGR----- 203
QY 134 TTYCY--IDENKOYMGGAIAAP-----GITSTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMOSGILFG 195
Db 264 YELMEDTNYGNFKYERTSVDOGEKTRQAVLFG 297

RESULT 6
US-08-096-181A-8
; Sequence 8, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.

```

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Db 97 DVLCIGRCYCHMACPYGAP-----QINETKGHMTKDCGYDRVAEGKKPICVESCPLR 148
QY 127 VVDEGTATTCYIDENKQYMG--GAIAPGIIISTEALYSRAAKLPRIITRPDNIIGNKT 184
Db 149 ALDFGP-----IDELRRKHGDLAAVAP-----RA--LPRAHFTKP-NIVIKPN 188
QY 185 VSAQSGILFGYV 197
Db 189 ANSRPTGDTTGYL 201

RESULT 2
US-08-096-181A-12
; Sequence 12, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/096,181A
; FILING DATE: 23-Jul-1993
; CLASSIFICATION: 424
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-096-181A-12

Query Match 5.9%; Score 79; DB 4; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;

QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIISSVVPIMPAL 73
Db 100 VKLGRAKTIADGITSADKEYGVLNNSDYIPTSGNTVGYTFKIDGLVLA---NYLLAQ 156
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNLYDNPKVEGADRIVNAVAHLYGNPLIVVDFGTA 133
Db 157 KREGAKGNRPNDKAGEVRIG---EINNGIOVGAKYDANDIVAKIAYGR----- 203
QY 134 TTICY--IDENKQYMGGAIAIP-----GITISTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFDLGLLVSLDSGYAKTKNYKIKHKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 264 YELMEDTNVYGNFKYERTSVQDGEKTRQAVLFG 297

US-08-096-181A-12
Query Match 5.9%; Score 79; DB 4; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;

QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIISSVVPIMPAL 73
Db 100 VKLGRAKTIADGITSADKEYGVLNNSDYIPTSGNTVGYTFKIDGLVLA---NYLLAQ 156
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNLYDNPKVEGADRIVNAVAHLYGNPLIVVDFGTA 133
Db 157 KREGAKGNRPNDKAGEVRIG---EINNGIOVGAKYDANDIVAKIAYGR----- 203
QY 134 TTICY--IDENKQYMGGAIAIP-----GITISTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFDLGLLVSLDSGYAKTKNYKIKHKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 264 YELMEDTNVYGNFKYERTSVQDGEKTRQAVLFG 297
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```
RESULT 3
US-08-096-181A-14
; Sequence 14, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/096,181A
; FILING DATE: 23-Jul-1993
; CLASSIFICATION: 424
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-096-181A-14

Query Match 5.9%; Score 79; DB 4; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;

QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIISSVVPIMPAL 73
Db 100 VKLGRAKTIADGITSADKEYGVLNNSDYIPTSGNTVGYTFKIDGLVLA---NYLLAQ 156
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNLYDNPKVEGADRIVNAVAHLYGNPLIVVDFGTA 133
Db 157 KREGAKGNRPNDKAGEVRIG---EINNGIOVGAKYDANDIVAKIAYGR----- 203
QY 134 TTICY--IDENKQYMGGAIAIP-----GITISTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFDLGLLVSLDSGYAKTKNYKIKHKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 264 YELMEDTNVYGNFKYERTSVQDGEKTRQAVLFG 297

RESULT 4
PCT-US94-08326-12
; Sequence 12, Application PC/TUS9408326
; GENERAL INFORMATION:
; APPLICANT: North American Vaccine, Inc.
; APPLICANT: 12103 Indian Creek Court
; APPLICANT: Beltsville, MD 20705
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level
; TITLE OF INVENTION: Expression,
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Db 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKODLKVIATGGLAPLIANESDCIDIVDPF 240
QY 241 LTLKGLLELIYERNVGSV 258
Db 241 LTLKGLLELIYERNVGSV 258

RESULT 2

US-09-813-453A-17
; Sequence 17, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813.453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-813-453A-17

Query Match 83.4%; Score 1114; DB 9; Length 233;
Best Local Similarity 99.5%; Pred. No. 7.9e-107; Mismatches 0; Indels 0; Gaps 0;
Matches 213; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLLVIDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
Db 1 MLLVIDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
QY 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
Db 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
QY 121 YGNPLIVVDFTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGNPLIVVDFTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
QY 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKOD 214
Db 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKOD 214

RESULT 3

US-09-813-453A-49
; Sequence 49, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813.453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 258
; TYPE: PRT

; ORGANISM: Bacillus stearothermophilus
US-09-813-453A-49
Query Match 78.4%; Score 1046; DB 9; Length 258;
Best Local Similarity 78.3%; Pred. No. 9.3e-100;
Matches 198; Conservative 32; Mismatches 23; Indels 0; Gaps 0;
QY 1 LLLVIDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
Db 1 MIFVLDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
QY 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
Db 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
QY 121 YGNPLIVVDFTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGSPLIIVDFGTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
QY 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKODLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKODLKVIATGGLAPLIANESDCIDIVDPF 240
QY 241 LTLKGLLELIYERN 253
Db 241 LTLKGLLELIYERN 253

RESULT 4

US-09-813-453A-45
; Sequence 45, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813.453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45
; LENGTH: 262
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-09-813-453A-45

Query Match 77.5%; Score 1034; DB 9; Length 262;
Best Local Similarity 75.1%; Pred. No. 1.6e-98;
Matches 190; Conservative 34; Mismatches 29; Indels 0; Gaps 0;
QY 1 LLLVIDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
Db 1 MIFVLDGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMLRSLFDHSLMFQIDGI 60
QY 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
Db 61 IISVVPPIMFALERMCTKYFIEPQIVGPGMKTGLNINIKYDNPKEVGADRVNVAIAHL 120
QY 121 YGNPLIVVDFTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGSPLIIVDFGTATTTCYIDENKQYMGGAIAPIGTISTEALYSRAAKLPRIETRPDNI 180
QY 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKODLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 GKNVTSAMQSGILFGYGVQEGIVKRMKQAKODLKVIATGGLAPLIANESDCIDIVDPF 240
QY 241 LTLKGLLELIYERN 253

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OM protein - protein search, using sw model

Run on: June 18, 2003, 10:00:25 ; Search time 50 Seconds
(without alignments)
558.347 Million cell updates/sec

Title: US-09-813-453A-2
Perfect score: 1335
Sequence: 1 LLLVIDGNTVTLGVYHDC.....PFLTLKGLIYERNRVGSV 258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCCT_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
7: /cgn2_6/ptodata/2/pubpaa/PCCTUS_PUBCOMB pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1335	100.0	258	9	US-09-813-453A-2
2	1114	83.4	233	9	US-09-813-453A-17
3	1046	78.4	258	9	US-09-813-453A-49
4	1034	77.5	262	9	US-09-813-453A-45
5	987	73.9	254	9	US-09-813-453A-47
6	794.5	59.5	256	9	US-09-813-453A-55
7	756	56.6	235	9	US-09-813-453A-7
8	655	49.1	265	9	US-09-813-453A-4
9	646.5	48.4	250	9	US-09-813-453A-3
10	577	43.2	260	9	US-09-813-453A-51
11	537	40.2	258	9	US-09-813-453A-6
12	535	38.6	219	9	US-09-813-453A-57
13	494.5	37.0	272	9	US-09-813-453A-5
14	493.5	37.0	272	9	US-09-712-363-276
15	428	32.1	262	9	US-09-813-453A-8
16	405.5	30.4	246	9	US-09-813-453A-9
17	338.5	25.4	212	9	US-09-813-453A-59
18	327.5	24.5	273	9	US-09-813-453A-10
19	319	23.9	257	9	US-09-813-453A-53

20	271.5	20.3	262	9	US-09-813-453A-11	Sequence 11, Appl
21	207	15.5	244	9	US-09-813-453A-41	Sequence 41, Appl
22	203	15.2	241	9	US-09-813-453A-63	Sequence 63, Appl
23	163	12.2	249	9	US-09-813-453A-70	Sequence 70, Appl
24	163	12.2	257	9	US-09-813-453A-13	Sequence 13, Appl
25	154.5	11.6	229	9	US-09-813-453A-12	Sequence 12, Appl
26	154	11.5	249	9	US-09-813-453A-61	Sequence 61, Appl
27	151	11.3	460	9	US-09-813-453A-39	Sequence 39, Appl
28	150	11.2	592	9	US-09-813-453A-22	Sequence 22, Appl
29	150	11.2	592	9	US-09-813-453A-43	Sequence 43, Appl
30	134.5	10.1	242	9	US-09-813-453A-65	Sequence 65, Appl
31	133	10.0	248	9	US-09-813-453A-20	Sequence 20, Appl
32	129.5	9.7	267	9	US-09-813-453A-15	Sequence 15, Appl
33	109.5	8.2	223	9	US-09-895-913A-74	Sequence 74, Appl
34	109.5	8.2	223	9	US-09-813-453A-14	Sequence 14, Appl
35	109.5	8.2	223	9	US-09-813-453A-67	Sequence 67, Appl
36	109	8.0	209	9	US-09-813-453A-21	Sequence 21, Appl
37	80	6.0	449	10	US-09-815-242-5474	Sequence 5474, Ap
38	80	6.0	449	10	US-09-815-242-12348	Sequence 12348, A
39	80	6.0	449	10	US-09-815-242-12793	Sequence 12793, A
40	79	5.9	636	10	US-09-205-658-160	Sequence 160, App
41	78.5	5.9	337	9	US-10-075-846-12	Sequence 12, Appl
42	78.5	5.9	776	10	US-09-815-242-13811	Sequence 13811, A
43	78.5	5.9	1057	10	US-09-815-242-5798	Sequence 5798, Ap
44	78.5	5.9	1107	10	US-09-815-242-12815	Sequence 12815, A
45	78.5	5.9	1198	10	US-09-815-242-12446	Sequence 12446, A

ALIGNMENTS

RESULT 1

US-09-813-453A-2
; Sequence 2, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 2
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Bacillus subtilis
; US-09-813-453A-2

QY	1	LLLVIDGNTVTLGVYHDCGKLEYHWRIETSRHTEDEFGMLRLSLFDHSGLMFQIDGI	60	Query Match	100.0%;	Score	1335;	DB	9;	Length	258;
Db	1	LLLVIDGNTVTLGVYHDCGKLEYHWRIETSRHTEDEFGMLRLSLFDHSGLMFQIDGI	60	Best Local Similarity	100.0%;	Pred. No.	1.5e-129;				
				Matches	258;	Conservative	0;	Mismatches	0;	Indels	0;
										Gaps	0;
QY	61	IISVVPPIFALERMCTKYFHEIPQIVGPGMKTLNLYDNPKVGVADRVNVAATHL	120								
Db	61	IISVVPPIFALERMCTKYFHEIPQIVGPGMKTLNLYDNPKVGVADRVNVAATHL	120								
QY	121	YGNPLIVVDGTTATTCYIDENKQYMGGAIPGTTISTEALYSRAAKLPRIETRPDNI	180								
Db	121	YGNPLIVVDGTTATTCYIDENKQYMGGAIPGTTISTEALYSRAAKLPRIETRPDNI	180								
QY	181	GKNTVSAMQSGILFYGVQVGEIVKRMKQAKDLKVIATGGLAPLANESCDIVDPF	240								
Db	181	GKNTVSAMQSGILFYGVQVGEIVKRMKQAKDLKVIATGGLAPLANESCDIVDPF	240								


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RESULT 11
US-09-813-453A-6
; Sequence 6, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Rhodobacter capsulatus
US-09-813-453A-6

Query Match      40.2%; Score 537; DB 9; Length 258;
Best Local Similarity 43.9%; Pred. No. 2.8e-47;
Matches 112; Conservative 46; Mismatches 95; Indels 2; Gaps 2;

QY 1 LLLVIDGNTNTVLGVYHDGKLEYHWRIFTSRHKTEDEFGMILRSFDHSGLMFEQIDGI 60
Db 1 MLLCIDCGNTNTVSVWDGTFDAATWRIATDHRETADEYFVWLNTLMQLGLQ-GRISEA 59

QY 61 IISVVPPIFALERMCTKYFHIPOIVG-PGKMTGLNPKYDNPKEVGADRIVNAVAIH 119
Db 60 IISSTARPVNLEVLNRRFDCRPVYVGRPCCLPVAPRVDPCTTYPGDRLVNTVAGYD 119

QY 120 LYGNPLIVDFGATTCYCIDENKQYMGGAIPAGITISTEALYSRAAKLPRIETRPDNI 179
Db 120 RHGGDLIVDFGATTTDVVAPDAGYIGGVAPGVNLSLEALHMAAALPHVDVTKPGV 179

QY 180 IGKNTVSAMOSGILFGVVGQVEGIVKRMKQWAKODLKVIRATGGLAPLIANESDCIDVDP 239
Db 180 IGTNTVACISQVTVWYIGLVGIVRQIRMRDRPMKVIVATGGGLASLFDLGLDFDKVED 239

QY 240 FLTKLGLLEIYERNR 254
Db 240 DLMHGLRLIFDYNK 254

RESULT 12
US-09-813-453A-57
; Sequence 57, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 57
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Dehalococcoides ethenogenes
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US-09-813-453A-57

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Query Match      38.6%; Score 515; DB 9; Length 219;
Best Local Similarity 45.8%; Pred. No. 4.1e-45;
Matches 97; Conservative 45; Mismatches 70; Indels 0; Gaps 0;

QY 2 LLLVIDGNTNTVLGVYHDGKLEYHWRIFTSRHKTEDEFGMILRSFDHSGLMFEQIDGII 61
Db 5 LVAVDIGNTSVNIGIFEGEKLKLANHLGSAQORMADEYASLLGLLQAHAGIHPPEELNRVI 64

QY 62 ISSVVPPIFALERMCTKYFHIPOIVGPGKMTGLNPKYDNPKEVGADRIVNAVAIAHLY 121
Db 65 MCSVVPPLTTTTFEYFKSYFFKAAPLVVAGIYKSGVAKRMNDNFREVGAADRIVNAARVLY 124

QY 122 GNPLIVDFGATTCYCIDENKQYMGGAIPAGITISTEALYSRAAKLPRIETRPDNIIG 181
Db 125 PGACIIVDMGTATFTDLTSEGAYIGGAIPAGIATSAQAIKTSKLPKIEIRPAKVIG 184

QY 182 KNTVSAMOSGILFGVVGQVEGIVKRMKQWAKQ 213
Db 185 SNTVSAMOSGIYFGYIGLVVELVRRRIOTELGQ 216
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RESULT 13

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US-09-813-453A-5
; Sequence 5, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-813-453A-5
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Query Match      37.0%; Score 494.5; DB 9; Length 272;
Best Local Similarity 38.8%; Pred. No. 7.3e-43;
Matches 102; Conservative 55; Mismatches 93; Indels 13; Gaps 4;
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QY 1 LLLVIDGNTNTVLGVY----HDGKLEYHWRITETSRHKTEDEFGMILRSFDHSGLMFEQ 56
Db 1 MLLAIDVNTHTVYVGLLSGMKEHAKVVOQWRRTETSEVTADELATIDGLIGEDS---ER 57

QY 57 IDGIIISVVPPIFALERMCTKYFHIPOI-VGPKMTGLNPKYDNPKEVGADRIVNAV 115
Db 58 LTGTAALSTVPSVLHEVRIMLDQYWPSPVPHVLIEPVRTGIPLLVDNPNKEVGADRIVNCL 117

QY 116 AAHLYGNPLIVDFGATTCYCIDENKQYMGGAIPAGITISTEALYSRAAKLPRIETIR 175
Db 118 AAYDRFRKAAIIVDFGSSICVDVWSAKGEFLGAGIAPGVQVSSDAAAASAAALRRVELAR 177

QY 176 PDNTIGKNTVSAMOSGILFGVVGQVEGIVKRMK-----WQAKODLKVIRATGGLAPLIANE 230
Db 178 PRSVVGKNTVECMQAGAVFGAGLVGLVGRIRVEDVSGFSVDHVAIVATGHTAPLLPPE 237

QY 231 SDCIDIVDPFLTKLGLLEIYERN 253
Db 238 LHTVDHYDQHLTLQGLRLVFFERN 260
```

RESULT 14

```
Query Match      48.4%; Score 646.5; DB 20; Length 250;
Best Local Similarity 53.9%; Pred. No. 5.2e-64;
Matches 125; Conservative 46; Mismatches 56; Indels 5; Gaps 1;

QY 1 LLLVVDGNTNTVLGVYHDGKLEYHWRHRIETSRHKTDEFGMLRSLFDHSGLMFEQIDGI 60
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 18 VILVDGNTNVLGIYNDKFLAEWRLSTDVLRSADEYGIQVNNLFQDDKLDPTLVEGV 77
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIHL 120
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 78 IISVVPNIMYSLEHMIRKYFKINPLVVGPGIKTGINKIYDNPKEVGADRIVNAVAHEI 137
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 121 YGNPLVWDGTTATTCYIDENKQYMGGAITAPGITISTEALYSRAAKLPRIETRPDNI 180
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 138 YKRSLLIIDGTATTCAVRENGDYLGAICPGIKVSSEALFEKAAKLPVELIKPAYAI 197
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 181 GKNTVSAMQSGLFGYVGQVEGIVKRMKQAKQDLK-----VIATGGLAPLI 227
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 198 CKNTSISSQSGIVRYLRQVKYLFELKLENLPDGRRTRTSLVLTATGGLAKLI 249
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

RESULT 14
US-09-813-453A-3
; Sequence 3, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Clostridium acetobutylicum
US-09-813-453A-3

Query Match      48.4%; Score 646.5; DB 22; Length 250;
Best Local Similarity 53.9%; Pred. No. 5.2e-64;
Matches 125; Conservative 46; Mismatches 56; Indels 5; Gaps 1;

QY 1 LLLVVDGNTNTVLGVYHDGKLEYHWRHRIETSRHKTDEFGMLRSLFDHSGLMFEQIDGI 60
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 18 VILVDGNTNVLGIYNDKFLAEWRLSTDVLRSADEYGIQVNNLFQDDKLDPTLVEGV 77
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIHL 120
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 78 IISVVPNIMYSLEHMIRKYFKINPLVVGPGIKTGINKIYDNPKEVGADRIVNAVAHEI 137
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 121 YGNPLVWDGTTATTCYIDENKQYMGGAITAPGITISTEALYSRAAKLPRIETRPDNI 180
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 138 YKRSLLIIDGTATTCAVRENGDYLGAICPGIKVSSEALFEKAAKLPVELIKPAYAI 197
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 181 GKNTVSAMQSGLFGYVGQVEGIVKRMKQAKQDLK-----VIATGGLAPLI 227
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 198 CKNTSISSQSGIVRYLRQVKYLFELKLENLPDGRRTRTSLVLTATGGLAKLI 249
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
```

```
RESULT 15
US-09-813-453A-51
; Sequence 51, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
```

```
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 51
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Caulobacter crescentus
US-09-813-453A-51

Query Match      43.2%; Score 577; DB 22; Length 260;
Best Local Similarity 44.4%; Pred. No. 4.3e-56;
Matches 114; Conservative 50; Mismatches 91; Indels 2; Gaps 1;

QY 1 LLLVVDGNTNTVLGVYHDGKLEYHWRHRIETSRHKTDEFGMLRSLFDHSGLMFEQIDGI 60
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 1 MLTAEQGTNTMTFAIHDGASWVAQWRSATSTRTADEYVVMWLSQLLSNQGLGFRADAV 60
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIHL 120
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 61 IISVVQSQSIFNLNLSRRYFNVEPLVIGENAKLGIDVRIEKPSEAGADRLVNAICAAMV 120
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 121 YGNPLVVDGTTATTCYIDENKQYMGGAITAPGITISTEALYSRAAKLPRIETRPDNI 178
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 121 YPGPLVVIDSGTATTFDIVAADGAFEGGIIAPGINLSMQALHEAAAKLPRIAIQRPAGNR 180
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 179 IIGKNTVSAMQSGLFGYVGQVEGIVKRMKQAKQDLKVIATGGLAPLIANESDCIDIYD 238
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 181 IVGTDTVSAMQSGLFGYVGQVEGIVKRMKQAKQDLKVIATGGLAPLIANESDCIDIYD 240
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

QY 239 PFLTLKGLLEIYERNRV 255
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|
Db 241 SDLIRGLLEIYERNRI 257
   :||:||||| |||:|:| ||| :||:|:| :||:|:| :||:|:| :||:|:| :||:|:|

Search completed: June 18, 2003, 10:06:51
Job time : 312 secs
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Db 1 MLLVIDGNTNTVLGVYQDETTLVHHWRLATSRQKTEDEYAMTVRSFLDHFAGLQFQIDGI 60
QY 61 IISVVPPIMFALERMCTKYFHEIPQIVGPMKTLGKLNKNDPNKVEGADRIYNVAAIHL 120
Db 61 VISSVPPMFSLEQMKCKYFHVTPMIGPGIKTGLNKNKNDPNKVEGADRIYNVAAIHL 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPAGTITSTEALYSRAAKLPRIETRPDNI 180
Db 121 YGPAIVDFGTATTCYLINEKQYAGVAPAGTITSTEALYHRSKLPRIETIAKQV 180
QY 181 GKNVTSAMQSGILFYGQVGEIVKRMKQAKQDLKVIATGGLAPLIANESDCIDVDPF 240
Db 181 GTNTIDSMQSGIFGYVQSDGVYKRMKAQAESEPKVIATGGLAKLIGTSETIDVDSF 240
QY 241 LTLKGLLEIYERN 253
Db 241 LTLKGLLIYKKN 253

RESULT 8

US-09-813-453A-55
; Sequence 55, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: CGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 55
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Clostridium difficile
US-09-813-453A-55

Query Match 59.5%; Score 794.5; DB 22; Length 256;
Best Local Similarity 60.8%; Pred. No. 8.5e-81;
Matches 155; Conservative 40; Mismatches 59; Indels 1; Gaps 1;
QY 1 LLLVIDGNTNTVLGVYHDKLEYHWRIETSRHKTEDEFGMLRSFLDHSGLMFEQIDGI 60
Db 1 MLLVFDGNTNMVLGIYKDKLNNYWRKTDREKTSDEYGLISNLFYDNVNSIDDDV 60
QY 61 IISVVPPIMFALERMCTKYFHEIPQIVGPMKTLGKLNKNDPNKVEGADRIYNVAAIHL 120
Db 61 IISVVPPNMHSLNFCIKYCKKQPLVGPQIKTGLNKNKNDPNKQVQVADRIYNVAVAGIEK 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPAGTITSTEALYSRAAKLPRIETRPDNI 180
Db 121 YGAPSLVDFGTATTCFCAISEKGYLGTTAPGKISSEALFQSKLPRVELAKPGWTI 180
QY 181 GKNVTSAMQSGILFYGQVGEIVKRMKQAK -ODLKIATGGLAPLIANESDCIDVDP 239
Db 181 CKVTSAMQSGIIVGYVGLVDKIISIMKELNCCDDVKVIATGGLAKLIASETKSIDYVDG 240
QY 240 FLTLKGLLEIYERN 254
Db 241 FLTLGLLIYERNQ 255

RESULT 9

US-09-813-453A-7
; Sequence 7, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.

; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: CGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; PRIOR FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Geobacter sulfurreducens
US-09-813-453A-7

Query Match 56.6%; Score 756; DB 22; Length 255;
Best Local Similarity 57.5%; Pred. No. 2e-76;
Matches 146; Conservative 46; Mismatches 62; Indels 0; Gaps 0;
QY 1 LLLVIDGNTNTVLGVYHDKLEYHWRIETSRHKTEDEFGMLRSFLDHSGLMFEQIDGI 60
Db 1 MLLVIDGNTNTVLGIYDGERLVRDWRVSTDKARTTDEYGLINELFRLAGLGLDQIRAV 60
QY 61 IISVVPPIMFALERMCTKYFHEIPQIVGPMKTLGKLNKNDPNKVEGADRIYNVAAIHL 120
Db 61 IISVVPPLTGVLERSLGYFGMRPLVVGPGIKTGMPLOYDNPREGADRIYNVAVAGYK 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPAGTITSTEALYSRAAKLPRIETRPDNI 180
Db 121 YRTSLIVDFGTATTFDYNRKGECGGAIPGLVISTEALFQASKLPVVDIIRPSAI 180
QY 181 GKNVTSAMQSGILFYGQVGEIVKRMKQAKQDLKVIATGGLAPLIANESDCIDVDPF 240
Db 181 ARNTVNSMQAGIYGYVGLVDEIVTRMKAESKADPRVIATGGLASLIAPESKTIEAVEY 240
QY 241 LTLKGLLEIYERN 254
Db 241 LTLGLRLIYERN 254

RESULT 10
US-09-902-540-10676
; Sequence 10676, Application US/09902540
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wisegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR FILING DATE: 2000-07-10
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 10676
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-10676

Query Match 54.9%; Score 733; DB 23; Length 256;
Best Local Similarity 53.8%; Pred. No. 8.2e-74;
Matches 136; Conservative 51; Mismatches 66; Indels 0; Gaps 0;
QY 1 LLLVIDGNTNTVLGVYHDKLEYHWRIETSRHKTEDEFGMLRSFLDHSGLMFEQIDGI 60
Db 1 MLLAIDVGNNTVLGVFEGRRLDHWRYETSTRRTSDEYGLVQLFTHRGIDPKVAV 60
QY 61 IISVVPPIMFALERMCTKYFHEIPQIVGPMKTLGKLNKNDPNKVEGADRIYNVAAIHL 120

Query Match	83.4%	Score 1114	DB 22	Length 233
Best Local Similarity	99.5%	Pred. No. 3.8e-17		
Matches 213	Conservative 1	Mismatches 0	Indels 0	Gaps 0
Qy	1	LLLVIDVGNNTVLGVYHDGKLEFVHWRIETSRHKTEDEFGMLRLSLFDHSGLMFEQIDGI	60	
Db	1	MLLVIDVGNNTVLGVYHDGKLEFVHWRIETSRHKTEDEFGMLRLSLFDHSGLMFEQIDGI	60	
Qy	61	IISSVWPPIMFALERMCTKVFHIEPQIVGPGMKTGLNIKYDNPKEVGADRVIVNAAIHL	120	
Db	61	IISSVWPPIMFALERMCTKVFHIEPQIVGPGMKTGLNIKYDNPKEVGADRVIVNAAIHL	120	
Qy	121	YGNPILVVDGTAATTCYCIDENKQYMGGAATPGTITSTEALYSRAAKLPRIETRPDNI	180	
Db	121	YGNPILVVDGTAATTCYCIDENKQYMGGAATPGTITSTEALYSRAAKLPRIETRPDNI	180	
Qy	181	GKNTVSAMQSGILFGYVGVQVEGIVKRMKWAQKD	214	
Db	181	GKNTVSAMQSGILFGYVGVQVEGIVKRMKWAQKD	214	

RESULT 5
 US-09-813-453A-49
 ; Sequence 49, Application US/09813453A
 ; GENERAL INFORMATION:
 ; APPLICANT: Yocum, R. Rogers
 ; APPLICANT: Patterson, Thomas A.
 ; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
 ; TITLE OF INVENTION: ANTIBIOTICS
 ; FILE REFERENCE: OGZ-001
 ; CURRENT APPLICATION NUMBER: US/09/813,453A
 ; CURRENT FILING DATE: 2001-03-20
 ; PRIOR APPLICATION NUMBER: US 60/227,860
 ; PRIOR FILING DATE: 2000-08-24
 ; PRIOR APPLICATION NUMBER: 09/667,569
 ; PRIOR FILING DATE: 2000-09-21
 ; NUMBER OF SEQ ID NOS: 77
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 49
 ; LENGTH: 258
 ; TYPE: PRT
 ; ORGANISM: Bacillus stearothermophilus
 US-09-813-453A-49

Query Match	78.4%;	Score 1046;	DB 22;	Length 258;
Best Local Similarity	78.3%;	Pred. No. 2.4e-109;		
Matches	198;	Conservative 32;	Mismatches 23;	Indels 0; Gaps 0;
QY	1	LLLVIDVGNNTVGLVYHDKLEYHHRIETSRUKTDEFCWILRSLFDSHGLMFEQIDGI	60	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	1	MIFVLVDGNTVGLVYDGDGLKHHRIETSRKTEDEYGMKALLNHVGLQFSDIRGI	60	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	61	IISSVVPPIWFALERMCTKYFHLEPOIVGPGMKTLGNIKYDNPKEVGADRVNAVAAIHL	120	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	61	IISSVVPPIWFALERMCLKYFHKPLIVPGIKTGLDIKVDNPKEVGADRVNAVAGIHL	120	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	121	YGNPLIVDFGATTTCYIDENKQYMGGAIAPOGITISTEALYSRAAKLPRIETRPDNI	180	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	121	YGSPLIVDFGATTTCYINEHKQYMGGAIAFOGIMISTEALFARAAKLPRIETARPDII	180	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	181	GKNTVSAMQSGILFGYVGQVEGIVKRMQWAKODLKVIATGGIAPLIANESDCIDIIVDPF	240	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	181	GKNTVSAMQAGILGYVGQVEGIVSRMAKSKIPPKVIATGGIAPLIASESDIIDVDPF	240	
Db		::: ::: ::: ::: ::: ::: ::: :::		
QY	241	LTGLGLELIYERN	253	
Db		::: ::: ::: ::: ::: ::: :::		
QY	241	LTGLGLIYERN	253	
Db		::: ::: ::: ::: ::: ::: :::		

RESULT 6
US-09-813-453A-45
; Sequence 45, Application US/09813453A
; GENERAL INFORMATION:

```

; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 45
; LENGTH: 262
; TYPE: PRT
; ORGANISM: Bacillus anthracis
; US-09-813-453A-45

```

[illegible]

RESULT 7
US-09-813-453A-47
Sequence 47, Application US/09813453A
GENERAL INFORMATION:
APPLICANT: Yocum, R. Rogers
APPLICANT: Patterson, Thomas A.
TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
TITLE OF INVENTION: ANTIBIOTICS
FILE REFERENCE: CGZ-001
CURRENT APPLICATION NUMBER: US/09/813,453A
CURRENT FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: US 60/227,860
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: 09/667,569
PRIOR FILING DATE: 2000-09-21
NUMBER OF SEQ ID NOS: 77
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 47
LENGTH: 254
TYPE: PRT
ORGANISM: Bacillus halodurans
US-09-813-453A-47

```
Query Match      73.9%; Score 987; DB 22; Length 254;
Best Local Similarity 72.3%; Pred. No. 1.2e-102;
Matches 183; Conservative 33; Mismatches 37; Indels 0; Gaps 0;
```


Query Match	100.0%	Score 1335;	DB 20;	Length 258;
Best Local Similarity	100.0%;	Pred. No. 3.6e-142;		
Matches 258;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Y Y	1	LLLVIDGNTNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMLRLSLFPHSGLMFEQIDGI	60	
D D	1	LLLVIDGNTNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMLRLSLFPHSGLMFEQIDGI	60	
Y Y	61	IISSVVPPIPEALERMCYKTHIEPIQIVPGMKTGKLNKYDNPKEVGADRIVNAVAATHL	120	
D D	61	IISSVVPPIPEALERMCYKTHIEPIQIVPGMKTGKLNKYDNPKEVGADRIVNAVAATHL	120	
Y Y	121	YGNPLIVDFGTATTTCYCIDENKQYMGGAIAPGITISTEALYSRAAKLPRIETRPDNI	180	
D D	121	YGNPLIVDFGTATTTCYCIDENKQYMGGAIAPGITISTEALYSRAAKLPRIETRPDNI	180	
Y Y	181	GKNTVSAMQSGILFGYGVGVGIVKRMKWAQKDLKVIATGGLAPLIANESDCIDIYDPF	240	
D D	181	GKNTVSAMQSGILFGYGVGVGIVKRMKWAQKDLKVIATGGLAPLIANESDCIDIYDPF	240	
Y Y	241	LTCLKGLIYERNRVGSV	258	
D D	241	LTCLKGLIYERNRVGSV	258	

```

RESULT 2
US-09-813-453A-2
; Sequence 2, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: CGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 258
; TYPE: PRF
; ORGANISM: Bacillus subtilis
US-09-813-453A-2

```

```

RESULT 3
US-09-667-569A-85
; Sequence 85, Application US/09667569A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; APPLICANT: Hermann, Theron
; APPLICANT: Pero, Janice G.
; TITLE OF INVENTION: METHODS AND MICROORGANISMS FOR PRODUCTION OF
; TITLE OF INVENTION: PANTO-COMPOUNDS
; FILE REFERENCE: BGI-141CP
; CURRENT APPLICATION NUMBER: US/09/667,569A
; CURRENT FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: USSN 09/400,494
; PRIOR FILING DATE: 1999-09-21
; PRIOR APPLICATION NUMBER: USSN 60/210,072
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: USSN 60/221,938
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: USSN 60/227,860
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 85
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-667-569A-85

Query Match      83.48; Score 1114; DB 20; Length 233;
Best Local Similarity 99.5%; Pred. No. 3.8e-117;
Matches 213; Conservative 1; Mismatches 0; Indels 0; Gaps 0

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 ; Sequence 17, Application US/09813453A
 ; GENERAL INFORMATION:
 ; APPLICANT: Yocum, R. Rogers
 ; APPLICANT: Patterson, Thomas A.
 ; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
 ; TITLE OF INVENTION: ANTIBIOTICS
 ; FILE REFERENCE: CGZ-001
 ; CURRENT APPLICATION NUMBER: US/09/813,453A
 ; CURRENT FILING DATE: 2001-03-20
 ; PRIOR APPLICATION NUMBER: US 60/227,860
 ; PRIOR FILING DATE: 2000-08-24
 ; PRIOR APPLICATION NUMBER: 09/667,569
 ; PRIOR FILING DATE: 2000-09-21
 ; NUMBER OF SEQ ID NOS: 77
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 17
 ; LENGTH: 233
 ; TYPE: PRT
 ; ORGANISM: Bacillus subtilis
 US-09-813-453A-17

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 18, 2003, 09:59:10 ; Search time 311 Seconds
(without alignment)
534.859 Million cell updates/sec

Title: US-09-813-453A-2

Perfect score: 1335

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA_Main:*

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- 27: /cgn2_6/ptodata/1/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1335	100.0	258	US-09-813-453A-2
3	1114	83.4	233	US-09-667-569A-85
4	1114	83.4	233	US-09-813-453A-17
5	1046	78.4	258	US-09-813-453A-49
6	1034	77.5	262	US-09-813-453A-45
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				Sequence 2, Appli
				Sequence 85, Appl
				Sequence 17, Appl
				Sequence 49, Appl
				Sequence 45, Appl

Sequence 47, Appl
Sequence 55, Appl
Sequence 7, Appl
Sequence 10676, A
Sequence 4, Appl
Sequence 74, Appl
Sequence 3, Appl
Sequence 51, Appl
Sequence 75, Appl
Sequence 57, Appl
Sequence 8, Appl
Sequence 5, Appl
Sequence 276, App
Sequence 10, Appl
Sequence 8, Appl
Sequence 12, Appl
Sequence 9, Appl
Sequence 11, Appl
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Sequence 12286, A
Sequence 6074, Ap
Sequence 41, Appl
Sequence 63, Appl
Sequence 4748, Ap
Sequence 3014, Ap
Sequence 4402, Ap
Sequence 70, Appl
Sequence 16, Appl
Sequence 13, Appl
Sequence 15, Appl
Sequence 12, Appl
Sequence 61, Appl

US-09-813-453A-47
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US-09-902-540-10676
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US-09-813-453A-13
US-09-667-569A-15
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ALIGNMENTS

RESULT 1
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; Sequence 9, Application US/09667569A
; GENERAL INFORMATION:
; APPLICANT: Vocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; APPLICANT: Hermann, Theron
; APPLICANT: Pero, Janice G.
; TITLE OF INVENTION: METHODS AND MICROORGANISMS FOR PRODUCTION OF
; FILE REFERENCE: BCI-141CP
; CURRENT APPLICATION NUMBER: US/09/667,569A
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: USSN 09/400,494
; PRIOR FILING DATE: 1999-09-21
; PRIOR APPLICATION NUMBER: USSN 60/210,072
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: USSN 60/221,938
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: USSN 60/227,860
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-667-569A-9